

## Refine Search

### Search Results -

Terms	Documents
L1 and (bandwidth or (band adj1 width))	10

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result set

*DB=PGPB; PLUR=YES; OP=OR*L2 L1 and (bandwidth or (band adj1 width))10 L2L1 (variable near5 speed) near10 bus65 L1

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## Refine Search

### Search Results -

Terms	Documents
L4 and (adjust\$3 near5 frequenc\$3)	4

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L5    L4 and (adjust\$3 near5 frequenc\$3)    4    L5

L4    L3 and (bandwidth or (band adj1 width))    44    L4

L3    (variable near5 speed) near10 bus    309    L3

*DB=PGPB; PLUR=YES; OP=OR*

L2    L1 and (bandwidth or (band adj1 width))    10    L2

L1    (variable near5 speed) near10 bus    65    L1

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## Refine Search

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Terms	Documents
(361/683  361/684  361/685  361/686  322/32  709/233  370/257  710/33  710/300  710/307  710/58  710/240  710/309  710/15  710/60  710/313  712/32  340/825  713/600  713/501  713/320  713/322).ccls.	16192

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SetName Query
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L6 710/33,300,307,58,240,309,15,60,313;713/600,501,320,322;340/825;370/257;709/233;322/32;36686;712/32.ccls.

L5 L4 and (adjust\$3 near5 frequenc\$3)

L4 L3 and (bandwidth or (band adj1 width))

L3 (variable near5 speed) near10 bus

*DB=PGPB; PLUR=YES; OP=OR*

L2 L1 and (bandwidth or (band adj1 width))

L1 (variable near5 speed) near10 bus

END OF SEARCH HISTORY

## Refine Search

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### Search Results -

Terms	Documents
L4 and L6	7

Database:

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Set  
Name Query  
 side by  
 side

*DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR*

L7    l4 and L6

L6    710/33,300,307,58,240,309,15,60,313;713/600,501,320,322;340/825;370/257;709/233;322/32;36  
 686;712/32.ccls.

L5    L4 and (adjust\$3 near5 frequenc\$3)

L4    L3 and (bandwidth or (band adj1 width))

L3    (variable near5 speed) near10 bus

*DB=PGPB; PLUR=YES; OP=OR*

L2    L1 and (bandwidth or (band adj1 width))

L1    (variable near5 speed) near10 bus

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## » Key

IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

## Modify Search

(( variable&lt;in&gt;metadata ) &lt;and&gt; ( speed&lt;in&gt;metadata ) )&lt;and&gt; ( bus&lt;in&gt;metadata )

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## Request based channel access protocol on folded bus topology

Kumar, S. Jayasumana, A.P.  
Dept. of Comput. Sci., Colorado State Univ., Fort Collins, CO, USA;

This paper appears in: Local Computer Networks, 1995., Proceedings. 20th Conference on

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Location: Minneapolis, MN

INSPEC Accession Number: 5211967

Digital Object Identifier: 10.1109/LCN.1995.527342

Posted online: 2002-08-06 19:55:44.0

### Abstract

Multichannel optical networks promise **bandwidth** in the gigabits/sec domain. This current trend in optical device technology demands a simple yet scalable protocol for future high speed networks. The Request Based Channel Access (RBCA) protocol provides solution based on folded bus topology. RBCA protocol communication consists of two steps, namely, **bandwidth** request and data transmission. The communication is slot based and supports variable packet lengths. A dedicated monitor node in the network performs all protocol processing and error detection/correction functions, and minimizes all protocol overheads in nodes. The protocol provides fair channel access to all nodes, irrespective of their relative position from the fold of the network. In a multichannel network, the communication of each channel is independent of all other channels. Thus multichannel networks can be implemented as better optical communication devices, supporting large number of parallel channels, become available

### Index Terms

Inspec

### Controlled Indexing

local area networks optical communication protocols

### Non-controlled Indexing

RBCA protocol Request Based Channel Access bandwidth request channel access protocol data transmission dedicated monitor node folded bus folded bus topology multichannel optical networks

### Author Keywords



Not Available

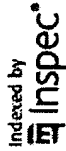
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